Test Report
Consistency test

Project Name	Providing Children Play Equipments and Senior Citizen Gym Equipments and Landscape Development to Parks in Ward no. 07, Byadrayanapura of Yelahanka Zone
Client	Project Division Yelahanka ZONE
Job No	MCTPL/BBMP/YNK/PMC/W-7/2018-2019/QR/1
Mix Type	Plain Cement Concrete (1:4:8)
Contractor	Sri A.Sathish Gowda
Test Method	IS : 4031 (Part 5) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Location	At Site
Material	Cement
Sample No	1
Date	4-Jul-2018

Sl No.	Description	Trial 1	Trial 2	Trial 3	Trial 4	Trial 4
1	Weight of Cement	400	400	400	400	400
2	Percentage of water added (%)	27	28.5	29.5	30	30.5
3	Weight of Water (gm)	108	114	118	120	122
4	Initial Reading of Plunger (mm)	40	40	40	40	40
5	Difference (mm)	21.5	17	12	6.9	5.6

Results: Standard Consistency of Cement: 30.50%

Note:

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Test Report
Fineness test

Project Name	Providing Children Play Equipments and Senior Citizen Gym Equipments and Landscape Development to Parks in Ward no. 07, Byadrayanapura of Yelahanka Zone
Client	Project Division Yelahanka ZONE
Job No	MCTPL/BBMP/YNK/PMC/W-7/2018-2019/QR/1
Mix Type	Plain Cement Concrete (1:4:8)
Contractor	Sri A.Sathish Gowda
Test Method	IS : 4031 (Part 5) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Location	At site
Material	Cement
Sample No	1
Date	4-Jul-2018

Sl. No.	Determination	Trial 1	Trial 2
1	Weight of Cement before sieve (gm)	100	100
2	Weight of residue retained on 90um sieve (gm)	3.5	3
3	Percentage retained (%)	3.5	3
4	Average Percentage retained (%)	3.25	

Results: Residue of cement is: 3.25%

Comments: Maximum allowable residue by mass for ordinary portlad cement is 10%

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Test Report
Soundness test

Project Name	Providing Children Play Equipments and Senior Citizen Gym Equipments and Landscape Development to Parks in Ward no. 07, Byadrayanapura of Yelahanka Zone
Client	Project Division Yelahanka ZONE
Job No	MCTPL/BBMP/YNK/PMC/W-7/2018-2019/QR/1
Mix Type	Plain Cement Concrete (1:4:8)
Contractor	Sri A.Sathish Gowda
Test Method	IS : 4031 (Part 3) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Location	At Site
Material	Cement
Sample No	1
Date	4-Jul-2018

Sl. No.	Description	Trial 1	Trial 2	Trial 3
1	Initial Distance between the indicator points of Lechatelier mould	11	10	11
2	Final Distance between the indicator points of Lechatelier mould	12	15	13
3	Difference or expansion	1	5	2
4	Average Differences or Expansion in mm		2.67	

Results: Difference in Expansion of Cement: 2.67mm

Comments: Maximum allowable Expansion of cement is 10mm.

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Test Report
Compressive strength test

Project Name	Providing Children Play Equipments and Senior Citizen Gym Equipments and Landscape Development to Parks in Ward no. 07, Byadrayanapura of Yelahanka Zone
Client	Project Division Yelahanka ZONE
Job No	MCTPL/BBMP/YNK/PMC/W-7/2018-2019/QR/1
Mix Type	Plain Cement Concrete (1:4:8)
Contractor	Sri A.Sathish Gowda
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At Site
Material	Cement
Sample No	1
Date	4-Jul-2018

Cube	Cement Grade	Age at Test (Days)	Slump (mm)	Weight (kg)	Dimension (LxWxH)	Density (kg/m3)	Max. Load (KN)	Area (mm2)	Compressive Strength (N/mm2)	Average Sample (n/mm2)
1	43	3	-	0.82	70.6x70.6 x70.5	2330.2352	141	4984.36	28.29	28.69
2	43	3	-	0.84	70.6x70.6 x70.6	2387.0702	145	4984.36	29.09	

Results: 3-days Compressive strength of cement is 28.69N/mm^2

Comments: 3-days Compressive strength of cement should not be less than 23 N/mm^2

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Test Report
Compressive strength test

Project Name	Providing Children Play Equipments and Senior Citizen Gym Equipments and Landscape Development to Parks in Ward no. 07, Byadrayanapura of Yelahanka Zone
Client	Project Division Yelahanka ZONE
Lab No.	MCTPL/BBMP/YNK/PMC/W-7/2018-2019/QR/1
Mix Type	Plain Cement Concrete (1:4:8)
Contractor	Sri A.Sathish Gowda
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Condition	At Site
Material	Cement
Sample No.	1
Date	6-Jul-2018

Cube	Cement Grade	Age at Test (Days)	Slump (mm)	Weight (kg)	Dimension (LxWxH)	Density (kg/m3)	Max. Load (KN)	Area (mm2)	Compressive Strength (N/mm2)	Average Sample (n/mm2)
1	43	7	-	0.83	70.6x70.6 x70.6	2358.7	188	4984.36	37.72	37.52
2	43	7	-	0.84	70.6x70.6 x70.6	2387.1	186	4984.36	37.32	

Results: 7-days Compressive strength of cement is 37.52N/mm^2

Comments: 7-days Compressive strength of cement should not be less than 33 N/mm^2

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Test Report
Gradation test

Project Name	Providing Children Play Equipments and Senior Citizen Gym Equipments and Landscape Development to Parks in Ward no. 07, Byadrayanapura of Yelahanka Zone
Client	Project Division Yelahanka ZONE
Lab No	MCTPL/BBMP/YNK/PMC/W-7/2018-2019/QR/1
Mix Type	Plain Cement Concrete (1:4:8)
Contractor	Sri A.Sathish Gowda
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Condition	At site
Material	Fine Aggregates
Sample No	1
Date	4-Jul-2018

Weight of Sample(gram): 200

Sl No.	IS Sieve Size	Weight retained	% retained	% Cumulative	Cumulative % of Passing		Remarks
					% Passing	Gradation limits	
1	10 mm	0	0.00	0.00	100.00	100	Gradation satisfies the MORT&H Zone II Specification for PQC
2	4.75 mm	11	5.50	5.50	94.50	90-100	
3	2.36 mm	21	10.50	16.00	84.00	75-100	
4	1.18 mm	11	5.50	21.50	78.50	55-90	
5	600 µ	43	21.50	43.00	57.00	35-59	
6	300 µ	62	31.00	74.00	26.00	8-30	
7	150 µ	33	16.50	90.50	9.50	0-10	

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Test Report
Gradation test

Project Name	Providing Children Play Equipments and Senior Citizen Gym Equipments and Landscape Development to Parks in Ward no. 07, Byadrayanapura of Yelahanka Zone
Client	Project Division Yelahanka ZONE
Job No	MCTPL/BBMP/YNK/PMC/W-7/2018-2019/QR/1
Mix Type	Plain Cement Concrete (1:4:8)
Contractor	Sri A.Sathish Gowda
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Fine Aggregates
Sample No	2
Date	5-Aug-2018

Weight of Sample(gram): 200

Sl No.	IS Sieve Size	Weight retained	% retained	% Cumulative	Cumulative % of Passing		Remarks
					% Passing	Gradation limits	
1	10 mm	0	0.00	0.00	100.00	100	Gradation satisfies the MORT&H Zone ll Specification for PQC
2	4.75 mm	13	6.50	6.50	93.50	90-100	
3	2.36 mm	23	11.50	18.00	82.00	75-100	
4	1.18 mm	13	6.50	24.50	75.50	55-90	
5	600 µ	45	22.50	47.00	53.00	35-59	
6	300 µ	64	32.00	79.00	21.00	8-30	
7	150 µ	35	17.50	96.50	3.50	0-10	

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Test Report
Gradation test

Project Name	Providing Children Play Equipments and Senior Citizen Gym Equipments and Landscape Development to Parks in Ward no. 07, Byadrayanapura of Yelahanka Zone
Client	Project Division Yelahanka ZONE
Lab No.	MCTPL/BBMP/YNK/PMC/W-7/2018-2019/QR/1
Mix Type	Plain Cement Concrete (1:4:8)
Contractor	Sri A.Sathish Gowda
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Fine Aggregates
Sample No	3
Date	8-Aug-2018

Weight of Sample(gram): 200

Sl No.	IS Sieve Size	Weight retained	% retained	% Cumulative	Cumulative % of Passing: % Passing	Cumulative % of Passing: Gradation limits	Remarks
1	10 mm	0	0.00	0.00	100.00	100	Gradation satisfies the MORT&H Zone II Specification for PQC
2	4.75 mm	12	6.00	6.00	94.00	90-100	
3	2.36 mm	22	11.00	17.00	83.00	75-100	
4	1.18 mm	12	6.00	23.00	77.00	55-90	
5	600 µ	44	22.00	45.00	55.00	35-59	
6	300 µ	63	31.50	76.50	23.50	8-30	
7	150 µ	34	17.00	93.50	6.50	0-10	

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Test Report
Gradation test

Project Name	Providing Children Play Equipments and Senior Citizen Gym Equipments and Landscape Development to Parks in Ward no. 07, Byadrayanapura of Yelahanka Zone
Client	Project Division Yelahanka ZONE
Lab No.	MCTPL/BBMP/YNK/PMC/W-7/2018-2019/QR/1
Mix Type	Plain Cement Concrete (1:4:8)
Contractor	Sri A.Sathish Gowda
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Coarse aggregates
Sample No.	1
Date	4-Jul-2018

Weight of Sample: 4000 gms

Sl. No.	I.S. Sieve size	Weight Retained (gm)	of weight Retained (%)	ive Percentage of	Passing Test Result	Passing Gradation Limits as per	Remarks
1	37.50	0	0.00	0.00	100.00	100	
2	26.50	494	12.35	12.35	87.65	85-95	
3	19.00	326	8.15	20.50	79.50	68-88	
4	9.50	634	15.85	36.35	63.65	45-65	
5	4.75	420	10.50	46.85	53.15	30-55	
6	0.60	952	23.80	70.65	29.35	8-30	
7	0.15	851	21.28	91.93	8.07	5-15	
8	0.08	252	6.30	98.23	1.77	0-5	

Note:

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Test Report
Gradation test

Project Name:	Providing Children Play Equipments and Senior Citizen Gym Equipments and Landscape Development to Parks in Ward no. 07, Byadrayanapura of Yelahanka Zone
Client:	Project Division Yelahanka ZONE
Job No:	MCTPL/BBMP/YNK/PMC/W-7/2018-2019/QR/1
Test Type:	Plain Cement Concrete (1:4:8)
Contractor:	Sri A.Sathish Gowda
Test Method:	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location:	At site
Material:	Coarse aggregates
Sample No:	2
Date:	5-Aug-2018

Weight of Sample: 4000 gms

I.S. Sieve size	Weight Retained (gm)	of weight Retained (%)	ive Percentage of	Passing		Remarks
				Test Result	Gradation Limits as per	
37.50	0	0.00	0.00	100.00	100	
26.50	495	12.38	12.38	87.63	85-95	
19.00	327	8.18	20.55	79.45	68-88	
9.50	635	15.88	36.43	63.58	45-65	
4.75	421	10.53	46.95	53.05	30-55	
0.60	953	23.83	70.78	29.23	8-30	
0.15	852	21.30	92.08	7.93	5-15	
0.06	253	6.33	98.40	1.60	0-5	

Note:

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Test Report
Gradation test

Project Name	Providing Children Play Equipments and Senior Citizen Gym Equipments and Landscape Development to Parks in Ward no. 07, Byadrayanapura of *Yelahanka Zone*
Client	Project Division Yelahanka ZONE
Job No	MCTPL/BBMP/YNK/PMC/W-7/2018-2019/QR/1
Mix Type	Plain Cement Concrete (1:4:8)
Contractor	Sri A.Sathish Gowda
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Coarse aggregates
Sample No	3
Date	8-Aug-2018

Weight of Sample: 4000 gms

Sl. No	I.S. Sieve size	Weight Retained (gm)	of weight Retained (%)	ive Percentage of	Passing		Remarks
					Test Result	Gradation Limits as per	
1	31.50	0	0.00	0.00	100.00	100	
2	26.50	500	12.50	12.50	87.50	85-95	
3	19.00	332	8.30	20.80	79.20	68-88	
4	9.50	640	16.00	36.80	63.20	45-65	
5	4.75	426	10.65	47.45	52.55	30-55	
6	0.60	958	23.95	71.40	28.60	8-30	
7	0.15	857	21.43	92.83	7.18	5-15	
8	0.08	230	5.75	98.58	1.43	0-5	

Note:

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Test Report
Water absorption test

Project Name	Providing Children Play Equipments and Senior Citizen Gym Equipments and Landscape Development to Parks in Ward no. 07, Byadrayanapura of Yelahanka Zone
Client	Project Division Yelahanka ZONE
Job No	MCTPL/BBMP/YNK/PMC/W-7/2018-2019/QR/1
Mix Type	Plain Cement Concrete (1:4:8)
Contractor	Sri A.Sathish Gowda
Test Method	IS : 2386 (Part - 3) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Coarse aggregates
Sample No	1
Date	4-Jul-2018

Sl. No.	Particulars	Computations	Test Numbers		Mean
			Test 1	Test 2	
1	Weight of SSD sample	W_1 g	761	763	
2	Aggregates Immersed in	W_2g	2023	2022	
3	Weight of Saturated Aggregate in water	$W_s g = W_2 - W_1$	1262	1259	
4	dry aggregate in Air	W_3 g	2058	2047	
5	Volume of the Aggregate	$W_3 - W_s$	796	788	
6	Aggregate	W_4g	2019	2018	
7	Specific Gravity	$W_4/(W_3 - W_s)$	2.54	2.56	2.55
8	Apparent Specific Gravity	$W_4/(W_4 - W_s)$	2.67	2.66	2.66
9	Water Absorption	$(W_4 - W_3)*100/W_4$	1.93	1.44	1.69

Comments: Maximum allowable Aggregate Water Absorption value is 2.0%.

Note:

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Test Report
Water absorption test

Project Name	Providing Children Play Equipments and Senior Citizen Gym Equipments and Landscape Development to Parks in Ward no. 07, Byadrayanapura of Yelahanka Zone
Client	Project Division Yelahanka ZONE
Job No	MCTPL/BBMP/YNK/PMC/W-7/2018-2019/QR/1
Mix Type	Plain Cement Concrete (1:4:8)
Contractor	Sri A.Sathish Gowda
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Coarse Aggregates
Sample No	2
Date	5-Aug-2018

Sl. No:	Particulars	Computations	Test Numbers		Mean
			Test 1	Test 2	
1	Immersed in Water	W_1 g	765	765	
2	Aggregates Immersed in	W_2g	2020	2024	
3	Weight of Saturated Aggregate in water	$W_s g = W_2 - W_1$	1255	1259	
4	dry aggregate in Air	W_3 g	2055	2049	
5	Volume of the Aggregate	$W_3 - W_s$	800	790	
6	Aggregate	W_4g	2016	2020	
7	Specific Gravity	$W_4/(W_3 - W_s)$	2.52	2.56	2.54
8	Apparent Specific Gravity	$W_4/(W_4 - W_s)$	2.65	2.65	2.65
9	Water Absorption	$(W_4 - W_3)*100/W_4$	1.93	1.44	1.69

Comments: Maximum allowable Aggregate Water Absorption value is 2.0%.

Note:

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Test Report
Water absorption test

Project Name	Providing Children Play Equipments and Senior Citizen Gym Equipments and Landscape Development to Parks in Ward no. 07, Byadrayanapura of Yelahanka Zone
Client	Project Division Yelahanka ZONE
Job No	MCTPL/BBMP/YNK/PMC/W-7/2018-2019/QR/1
Mix Type	Plain Cement Concrete (1:4:8)
Contractor	Sri A.Sathish Gowda
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At Site
Material	Coarse Aggregates
Sample No	3
Date	8-Aug-2018

Sl. No.	Particulars	Computations	Test Numbers		Mean
			Test 1	Test 2	
1	Immersed in Water	W_1 g	761	763	
2	Aggregates Immersed in	W_2g	2030	2025	
3	Weight of Saturated Aggregate in water	$W_s g = W_2 - W_1$	1269	1262	
4	dry aggregate in Air	W_3 g	2065	2050	
5	Volume of the Aggregate	$W_3 - W_s$	796	788	
6	Aggregate	W_4g	2026	2021	
7	Specific Gravity	$W_4/(W_3 - W_s)$	2.55	2.56	2.55
8	Apparent Specific Gravity	$W_4/(W_4 - W_s)$	2.68	2.66	2.67
9	Water Absorption	$(W_4 - W_3)*100/W_4$	1.92	1.43	1.68

Comments: Maximum allowable Aggregate Water Absorption value is 2.0%.

Note:

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